

# Panasonic

## Digital Cordless Phone Operating Instructions

Model No. **KX-TCD500AL**

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#### Cordless Telephone

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Caller ID Compatible

**Please read these Operating Instructions before using the unit and save for future reference.**

**Charge the batteries for about 7 hours before initial use.**

Preparation

Cordless Telephone

Useful Information

# Before Initial Use

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## ◆◆ Features



### **32-Polyphonic Ring Tones**

A variety of high-quality sounds can be reproduced for your ring tones. You can choose from 9 pre-set melodies and 6 ring tones.



### **Hands-Free Speakerphone**

You can talk without holding the handset. Convenient for talking while doing something else.



### **Headset Jack**

Plug in the optional headset and the hands-free facility provides total ease and freedom of use.



### **Illuminated Keypad**

Lights up when there is an incoming call or you touch any key for easier operation even in the dark.



### **200-Station Phonebook**

Stores 200 station names and numbers with the built-in telephone directory to be recalled easily.



### **Multiple Handsets**

Up to 6 handsets can be registered with a single base unit for added convenience. (Optional handset/charger are available separately.)



### **LCD Backlight**

Lights up when there is an incoming call or you touch any key for easier operation even in the dark.

## Before Initial Use

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***Thank you for purchasing your new Panasonic digital cordless telephone.***

Dear purchaser,

You have acquired a KX-TCD500AL, which is a product made in accordance with the Digital Enhanced Cordless Telecommunications (DECT). DECT technology is characterized by high-security protection against interceptions as well as high-quality digital transmission. This telephone was designed for a wide range of applications. For example, this telephone can be used within a network of base units and handsets, constituting a telephone system which:

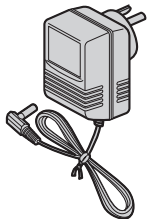
- operates up to 6 handsets at one base unit.
- allows an intercom between 2 handsets.
- allows the operation of a handset at up to 4 base units, expanding the communication radio area.

Caller ID Service, where available, is a telephone company service. After subscribing to Caller ID, this phone will display the caller's phone number.

# Before Initial Use

## Accessories (specific to product type)

☐ AC Adaptor  
PQLV19AL



one

☐ Telephone Line Cord



one

☐ Rechargeable Batteries  
(AAA size)  
HHR-4EPT/BA2



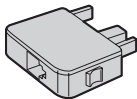
two

☐ Belt Clip



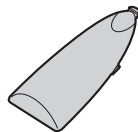
one

☐ Telephone Plug



one

☐ Battery Cover



one

Additional accessories are available for purchase. Contact your Panasonic Service Centre for further details.

Only use the power supply included with the product.

**Do not connect the AC adaptor to any AC outlet other than the standard AC220-240 V.**

**The apparatus is approved for use with PQLV19AL power supply.**

This apparatus is unable to make calls under the following conditions:

- The portable handset batteries need recharging, or have failed.
- During a mains power failure.
- When the Key Lock is set to ON.
- When the unit is in Direct Call mode (only the Direct Call Number can be made).

Do not open the base unit or handset (other than to change the batteries).

This apparatus should not be used near emergency/intensive care medical equipment and should not be used by people with pacemakers.

Care should be taken that objects do not fall onto, and liquids are not spilled into the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration or shock.

## Environment

Do not use this unit near liquid—for example, near a bath tub, washbowl, sink, etc. Damp basements should also be avoided.

The unit should be kept away from heat sources such as heaters, kitchen stoves, etc. It also should not be placed in rooms where the temperature is less than 5 °C or greater than 40 °C.

The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is located/installed near the unit and is accessible.

## WARNING:

TO PREVENT THE RISK OF ELECTRICAL SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY OTHER TYPE OF MOISTURE.

## Battery Caution

1. Use only the specified batteries.
2. **Only use rechargeable batteries.**
3. Do not mix old and new batteries.
4. Do not dispose of batteries in a fire, as they may explode.  
Check local waste management codes for special disposal instructions.
5. Do not open or mutilate the batteries.  
Released electrolyte from the batteries is corrosive and may cause burns or injury to the eyes or skin.  
The electrolyte may be toxic if swallowed.
6. Exercise care in handling the batteries in order not to short circuit the batteries with conductive materials such as rings, bracelets and keys.  
The batteries and/or conductor may overheat and cause burns.
7. Charge the batteries in accordance with the information provided in this operating guide.

## Location

- For maximum distance and noise-free operation, place your base unit:
  - Away from electrical appliances such as TVs, radios, personal computers or other phones.
  - In a convenient, high, and central location.

# Important Information

## Instructions to customer

### Installation

Attached to this telephone is an approval label. This label is evidence that it is a "Permitted Attachment" which has been authorised to be connected to your telephone service.

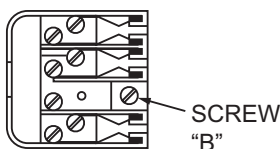
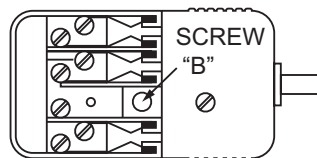
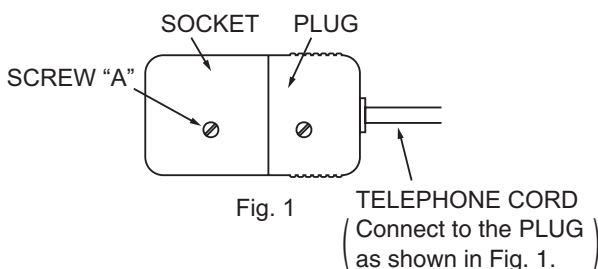
Conditions relating to connection and operation of this Permitted Attachment are contained in Telecommunications General By-Law 220 (5).

You are authorised to install this Permitted Attachment yourself by plugging it into the line socket of any regular telephone. You may connect it in place of your existing telephone or to any spare telephone socket installed in your premises.

To disconnect your existing telephone you must first remove its plug from the line socket. You can then insert the plug of your Permitted Attachment into the socket and use your equipment.

If the plug of your existing telephone cannot be readily removed, you will have to remove the screw securing it. To do this proceed as follows:

1. Loosen screw "A" sufficiently to remove the socket cover. (See Fig. 1.)
2. Remove screw "B" and withdraw the plug. (See Fig. 2.)
3. Replace screw "B". (See Fig. 3.) Ensure that it screws completely into the socket recess. (If the screw is too long, increase the hole depth or replace the screw with one 5 mm shorter.)
4. Replace socket cover and tighten screw "A". (See Fig. 4.)



# Important Information

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If you are satisfied with the operation of your telephone service after plugging in your Permitted Attachment, your installation is completed.

You will be unable to connect this Permitted Attachment if your telephone service consists only of a wall phone or an old style telephone which is not connected by means of a modern plug and socket. In such cases a new socket will need to be installed.

Should the Permitted Attachment not operate when plugged into a socket, it is either faulty or unsuitable for operation with your telephone service. It should be returned to the store where purchased or to an Authorised Service Centre.

## Service difficulties

If at any time a fault occurs on your telephone service carry out the following checks before you call for service:

- Disconnect the Permitted Attachment and try using the service with the normal telephone.
- If the telephone service then operates satisfactorily, the fault is in your Permitted Attachment. Leave the Permitted Attachment disconnected and report the fault to its supplier or agent to arrange for repair.
- If when using the telephone the service is still faulty, report the fault to "Service Difficulties and Faults" for attention.

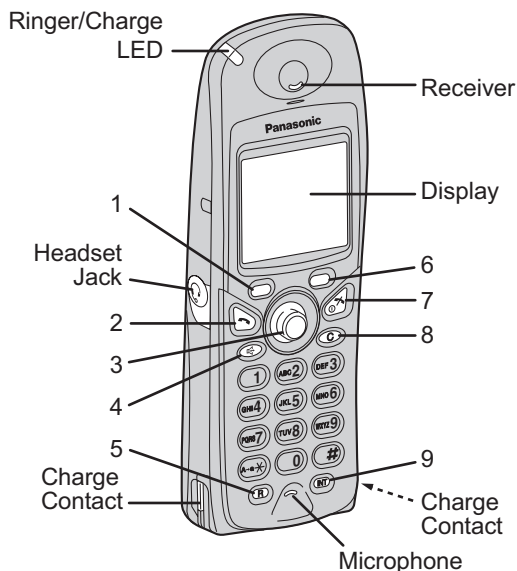
You are required to keep this Permitted Attachment in good working order while it is connected to your telephone service. Its construction or internal circuit must not be modified in any way without permission.

## WARNING

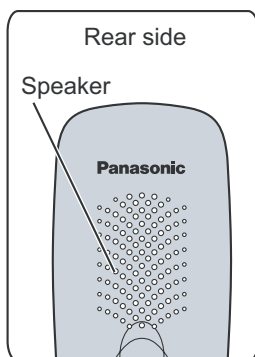
This cordless telephone system does not incorporate provision for secrecy of conversations. Appropriately tuned radio equipment and other cordless telephone systems in close proximity may be used by a third party to monitor and possibly interrupt conversations in progress when this system is on radio operation.

# Location of Controls

## ◆◆ Handset



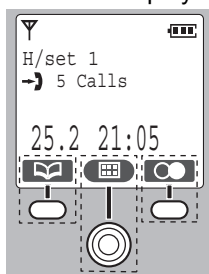
- 1 - **LEFT SOFT KEY**
- 2 - **TALK Button**
- 3 - **JOYSTICK**
- 4 - **SPEAKERPHONE Button**
- 5 - **RECALL Button**
- 6 - **RIGHT SOFT KEY**
- 7 - **POWER/TALK OFF Button**
- 8 - **CLEAR Button**
- 9 - **INTERCOM Button**



## How to Use the Handset Soft Keys

3 soft keys are used to select functions displayed directly above the keys. Functions displayed above the keys will change depending on the state of use. For example, on the standby mode display, "", "", and "", are displayed above the soft keys.

**Example:** Standby Mode Display



To operate "", (**Phonebook**), press **LEFT SOFT KEY**.

To operate "", (**Menu**), press **JOYSTICK** directly as the middle soft key.

To operate "", (**Redial**), press **RIGHT SOFT KEY**.

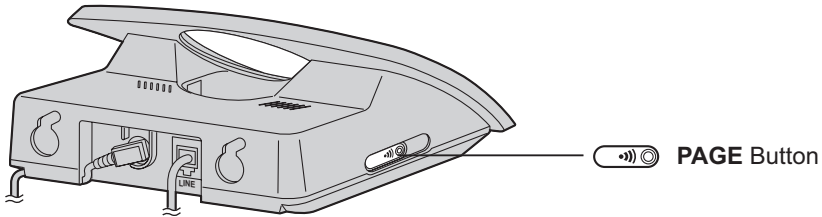
When "", is displayed above a soft key, the soft key will not work.

- To select only "", (**Menu**), you can also select it moving the **JOYSTICK** up, down, left or right.



# Location of Controls



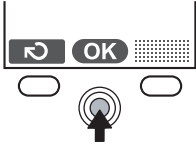
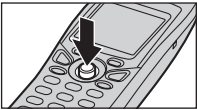

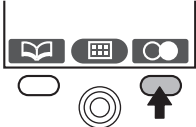

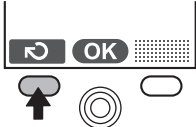




## ◆◆ Base Unit



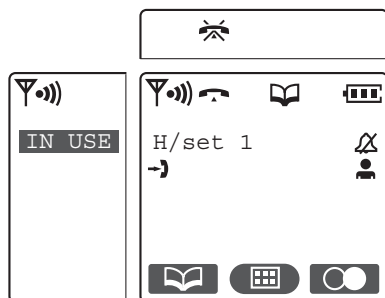
## Meanings of Icons above SOFT KEYS













Icon	Function	Icon	Function
	Go Back		Alphabet
	Menu		Numeric
	Sub-Menu		Extended 1
	OK		Extended 2
	Redial		Greek
	Phonebook		Russian
	New Phonebook		Select
	Search		Pause
	Key Lock		Mute
	12/24 Hour Clock		Delete
	No Function		

# Meanings of Symbols and Operations of Keys



Symbol	Meaning	
	Move the <b>JOYSTICK</b> up, down, left or right. e.g., Search the main menu.	
e.g., OK 	e.g., Display of menu items 	Press <b>JOYSTICK</b> directly in the centre.  In this example, the desired item is selected. 
e.g., Redial 	e.g., Standby Mode Display 	Press <b>RIGHT SOFT KEY</b> .  In this example, the telephone number last dialled is displayed.
e.g., Go Back 	e.g., Display of menu items 	Press <b>LEFT SOFT KEY</b> .  In this example, the display returns to the previous menu.   has the same function.
	Press <b>POWER/TALK OFF</b> Button. <b><u>Press this button once or twice, then the display returns to the standby mode any time.</u></b>	
	To go to the next step.	
“ ”	The words in “ ” indicate the words in the display.	
	Ringing Phone	

## ◆◆ Display Icons

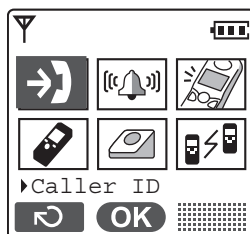








-  Within range of a base unit
-  Out of range/No registration/  
No power on base unit
-  Paging/Intercom/  
While connecting with base unit
-  Making or answering calls
-  Call Bar ON
-  Phonebook Mode
-  Battery strength
-  Direct Call ON
-  Ringer Volume OFF
-  H/set 1 Handset Name (e.g., Handset 1)
-  New call (Caller ID only)
-  The line is being used by another handset (for additional handset users).

## ◆◆ Main Menu Display

To go to the **Main Menu**, press **JOYSTICK**  directly in the centre (or move ) while in the standby mode display. The selected menu icon is turned over, and its title is displayed.

**Example:** “Caller ID” is selected.

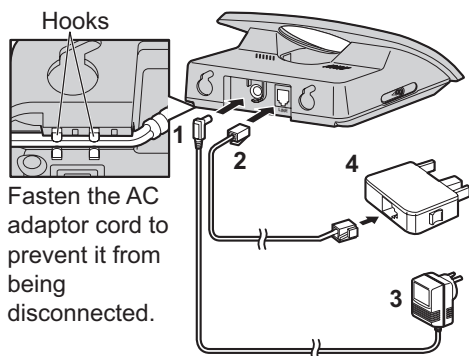


-  Caller ID
-  Handset Ringer Option
-  Display Option
-  Setting Handset
-  Setting Base Unit
-  Walkie-Talkie

# Setting up

## ◆◆ Connection

Plug in the AC adaptor and the telephone line cord in order 1, 2, 3, 4.

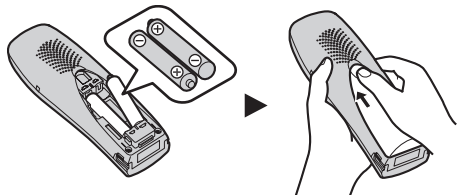


- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- Never install telephone wiring during a lightning storm.
- USE ONLY WITH Panasonic AC ADAPTOR PQLV19AL.
- KX-TCD500AL is not designed to be used with rotary (pulse dialling) services.

## ◆◆ Battery Installation

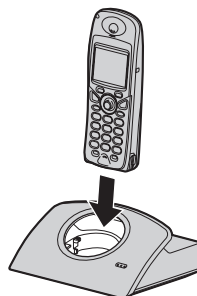
Please ensure the batteries are inserted as shown. ⊖ part should be inserted first. Close the cover as indicated by the arrow.

- When you replace the batteries, ⊕ part should be removed first.



## ◆◆ Battery Charge

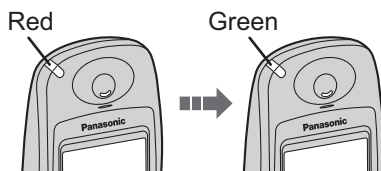
At the time of shipment, the batteries are not charged. To charge, place the handset on the base unit. **Please charge the batteries for about 7 hours before initial use.**



During charging, the charge LED will light as shown below.

**During charging**

**Fully charged**



Display icon	Battery strength
	High
	Medium
	Low
	Needs to be charged

The handset will turn on automatically when it is placed on the base unit.

**The handset will not operate while it is on the base unit.**

If you do not recharge the handset battery for more than 15 minutes, the display will flash when the handset is lifted off the base unit.

## ◆◆ Battery Information

After your Panasonic battery is fully charged:

### Ni-MH Batteries (typical 700 mAh)

Operation	Operating Time
While in use (TALK)	10 hrs approx.
While not in use (Standby)	120 hrs approx.


### Ni-Cd Batteries (typical 250 mAh)

Operation	Operating Time
While in use (TALK)	4 hrs approx.
While not in use (Standby)	40 hrs approx.

- Times indicated are for peak performance.
- The battery operating time may be shortened depending on usage conditions and ambient temperature.
- **Clean the charge contacts of the handset and the base unit with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.
- The batteries cannot be overcharged unless they are repeatedly removed and replaced.
- For maximum battery life, it is recommended that the handset not be recharged until the battery icon flashes



## ◆◆ Replacing the Batteries

If the  icon flashes after a few telephone calls even when the handset batteries have been fully charged, both batteries must be replaced.

- **Charge new batteries for approximately 7 hours before initial use.**
- **When replacing the batteries, be sure to set up the battery type even if you install the same type of batteries to initialise battery remaining memory of your handset. (See Setting the Battery Type on page 42.)**
- Do not use non-rechargeable batteries. If non-rechargeable batteries are fitted and start charging, it may cause the leakage of the battery electrolyte.
- Press the notch on the cover firmly and slide it as indicated by the arrow. Replace both batteries (p.12) and close the cover then charge the handset for about 7 hours.



**Please order Panasonic HHR-4EPT (Ni-MH) or P-4NPT (Ni-Cd) batteries.**

# Setting up

## ◆◆ Power ON/OFF

### ◆ Power ON

Press and hold **POWER**.



When **POWER** is released, the display changes to the standby mode.

### ◆ Power OFF


Press and hold **POWER**.



The display goes blank.

## ◆◆ Selecting the Display Language

You can select one of 19 languages. The factory preset is English.

To exit the operation, press  at any time.

**1** Press **JOYSTICK** (or move).



**2** Select “ Display Option”.



**3** Select “Select Language”.



**4** Select the desired language.





- If you set a language you cannot read, reset the handset to its initial settings.


Press  ➔ Press  ➔ Move  ➔ Press  ➔ Move  ➔ Press  ➔ Move  ➔ Press  ➔ Enter 4-digit Handset PIN (Factory Preset 0000) ➔ Move  ➔ Press 


All handset settings will be reset to their initial settings (p.43), however, the phonebook data will be saved.



◆◆ Setting the Date and Time

After a mains power failure, the clock needs to be adjusted. Ensure that the  icon is not flashing.  
To exit the operation, press  at any time.



**1** Press **JOYSTICK** (or move).



**2** Select  **Setting Handset**.

 → 


**3** Select **"Set Date/Time"**.

 → 













**4** Enter the date (see below).

**5** Enter the time (see below).

**6** Press **JOYSTICK**.




**Example:** To set 16 February, 2003, 7:15 pm.

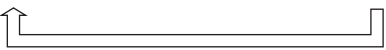
Date			Time		
Day	Month	Year	Hour	Minute	12/24 hour clock
 	→  	→  	→  	→  	→  

◆ To Select 12/24 Hour Clock

Press **RIGHT SOFT KEY** repeatedly.



24 hour clock → 12 hour clock (AM) → 12 hour clock (PM)



# Using the Telephone

## ◆◆ Making a Call

### ◆ Pre-Dialling

- 1 Enter Phone Number.
- 2 Press **TALK**.



### ◆ Post-Dialling

- 1 Press **TALK**.
- 2 Enter Phone Number.



- If you need to make a correction while entering the phone number when **using Pre-Dialling**, press **C**. The digit is cleared to the left, then you can enter numbers. All digits are cleared if you press and hold **C**.
- You can also press **↵** to make a call.

## ◆◆ Answering a Call

Press **TALK**.



### ◆ Terminating a Call

Press **TALK OFF**.

(During a call)



- You can also answer a call by pressing **0** to **EXIT/9**, **↵**, **#**, **↵** or **INT** (**Any Key Talk**).

## ◆◆ Auto Talk

If you set **Auto Talk** to ON, you can answer a call by lifting the handset off the base unit. (See **Setting Auto Talk ON/OFF** on page 42.)




# Using the Telephone

## ◆◆ Receiver (or Headset Receiver)/Speaker Volume

The choices for the receiver (or headset receiver) volume are 3 levels, and 6 levels for the speakerphone volume.

(During a call) ➔

To increase volume, move the **JOYSTICK** up.  
To decrease volume, move the **JOYSTICK** down.




## ◆◆ Have a Hands-Free Phone Conversation (using Digital Speakerphone)

Speakerphone allows you to talk to your caller without holding the handset and allows other persons in the room to listen to the conversation.

### ◆ To Return to Receiver

(During a call) ➔ Press **SPEAKERPHONE**.



Press **TALK**.




- For best performance, please note the following:
  - Talk alternately with the caller in a quiet environment.
  - If either party has difficulty hearing, move the **JOYSTICK** up or down to change the volume accordingly. The choices for the speakerphone volume are 6 levels.

## ◆◆ Muting Your Conversation

During a call, you can mute your phone so the other party cannot listen to you. When muting your conversation, you can hear the other party.

### ◆ To Mute

(During a call) ➔ Press **LEFT SOFT KEY**, then Icon flashes.





### ◆ To Return to the Conversation

Press once more.  
Icon stops flashing.



# Using the Telephone



## ◆◆ Key Lock

You can lock the handset dialling buttons. Only incoming calls are accepted while the key lock is ON. When the key lock is ON, the menu icon  changes to .

**When the key lock is ON, emergency calls cannot be made until key lock is cancelled.**



### ◆ Key Lock ON

(Standby Mode Display) → Press and hold **JOYSTICK** directly for more than 2 seconds.

### ◆ Key Lock OFF

Press and hold **JOYSTICK** directly for more than 2 seconds once more.



## ◆◆ Handset Locator/Paging








You can locate a misplaced handset by paging it.

### ◆ Paging

<b>&lt;Base Unit&gt;</b> Press <b>PAGE</b> . 	→	<b>&lt;All Handsets&gt;</b> All registered handsets ring for 1 minute. 
--	---	--

### ◆ To Stop Paging

<b>&lt;Base Unit&gt;</b> Press <b>PAGE</b> . 	<b>OR</b>	<b>&lt;One of Handsets&gt;</b> Press <b>TALK</b> . 
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


- You can also stop paging by pressing  to , , , ,  or .
- When the ringer volume is off (p.37, 44), the unit will ring at the lowest level.



# Using the Telephone

## ◆◆ Redialling

The last 10 numbers dialled are automatically stored in the redial list.

### ◆ Dialling with the Redial List





<b>1</b> Press <b>RIGHT SOFT KEY</b> .	<b>2</b> Search for the desired dialled item.	<b>3</b> Press <b>TALK</b> .
		

- If there are no items stored in the redial list when pressing , the display shows "Memory Empty".
- If the items are scrolled at the end when you search for the desired dialled item, an end tone sounds.
- You can also press  to make a call.
- To save the numbers from the redial list into the phonebook, or to edit or delete from memory, see pages 23 and 24.

### ◆ Dialling the Last Number Dialed

<b>1</b> Press <b>TALK</b> .	<b>2</b> Press <b>RIGHT SOFT KEY</b> .
	

### Auto Redial

If you press  then  to redial and the dialled number is engaged, the unit will automatically call back every 40 seconds, up to 10 times. When using Auto Redial, press  again after pressing  if the mute has not been cancelled.

## ◆◆ Recall Feature

**RECALL (R)** is used to access special telephone services. Contact your telephone company for details. If your unit is connected to a PBX, pressing **(R)** allows you to access some features of your host PBX such as transferring an extension call.

- Users in Australia can access Telstra's "EASY CALL" service by having the recall time set at 100 ms (this is the factory preset setting, p.45), and then follow Telstra's "EASY CALL" instructions to operate this service.


# Using the Telephone

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## ◆◆ Dialling Pause (for PBX line/long distance service users)

A dialling pause is used when a pause in the dialling of a phone number is necessary using a PBX or accessing a long distance service.

For example, when 0 (line access number) is dialled followed by a pause to access an outside line through a PBX:

<b>1</b> Press <b>0</b> .	<b>2</b> Press <b>RIGHT SOFT KEY</b> .	<b>3</b> Enter Phone Number.	<b>4</b> Press <b>TALK</b> .
			

- Entering a pause prevents misdialling when you redial or dial a stored number.
- Pressing **RIGHT SOFT KEY (Pause)** more than once increases the length of the pause between numbers.
- To change the pause time, see **Selecting the Pause Time** on page 45.

## ◆◆ Call Waiting and Caller ID Compatible

If you subscribe to Caller ID service (p.21), your handset displays the second caller's information while talking. After you hear a call-waiting tone, the caller's phone number will be displayed.

You can answer the second call, keeping the first call on hold. Follow Telstra or your service provider instructions using **RECALL (R)**.

- If the phone number is stored in the phonebook with its name, the caller's name will also be displayed.
- Please contact Telstra or your service provider for details and availability in your area.

### Using Caller ID Type II

When you receive a second call during a conversation, you will hear a signal tone following the call waiting tone and the **conversation will be interrupted or muted for a short period of time**. This is not the fault of the product as these events are normal.

Note: The tones are generated by the telephone company.

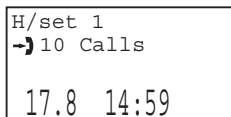
## ◆◆ Caller ID Service

**Caller ID is a service of your telephone company and will only operate if you have subscribed to this service.**

**After subscribing to Caller ID, this phone will display the caller information.**

If your unit is connected to a PBX or a telephone line that does not support this service, you will not be able to use it.

### ◆ Standby Mode Display




When new calls have been received, the display shows the number of calls.


In the example on the left, 10 new calls have been received.


## ◆◆ Making a Call from the Caller ID List


The last 50 callers' phone numbers are stored in the order the calls were received. When the 51st call is received, the oldest caller information is cleared. If the caller's name has been stored with the number in the phonebook (see **Storing Caller Information** on page 26), the caller's name will also be displayed.

To exit the operation, press  at any time.

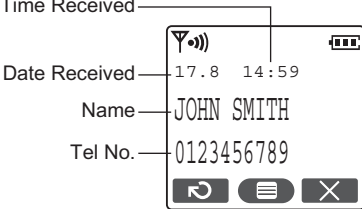
**1** Press **JOYSTICK** (or move).




**2** Select " Caller ID".




**3** The newest caller information is displayed.




**4** Search for the desired item.



**5** Press **TALK**.










- You can also press  to make a call.
- "✓" indicates you have already viewed this caller information, or answered the call.
- If the caller has requested not to display his/her information, the display shows "Private Caller".
- If the caller dialed from an area which does not provide Caller ID service, the display shows "Out of Area".
- If the items are scrolled at the end when you search for the desired item, an end tone sounds.
- If you store your area code (p.46), phone numbers from the same area will be dialled without the area code. You do not need to edit numbers to call back.

# List Menu

## ◆◆ Caller ID List Menu





You can save the numbers from the Caller ID list into the phonebook, and you can edit (for calling) or delete item(s) in the Caller ID List.






To exit the operation, press  at any time.

<b>1</b> Press <b>JOYSTICK</b> (or move).  	<b>2</b> Select "  Caller ID".   → 	<b>3</b> Select the desired item.   → 
Go to step 4.		








- If the items are scrolled at the end when you search for the desired item, an end tone sounds.
- If there are no items stored in the caller list when "Caller ID" is selected, the display shows "Memory Empty".

## ◆ Editing the Received Number for Calling

Follow steps 1 to 3 shown above, then:		
<b>4</b> Select "Edit for Call".   → 	<b>5</b> Edit Phone Number. (max. 24 digits)	<b>6</b> Press <b>TALK</b> or press <b>JOYSTICK</b> to call.   OR 

- You can also press  to make a call.
- To add a digit at the beginning of a phone number, press  to  or  at the desired item on step 3, or to delete a digit at the beginning of a phone number, press  at the desired item on step 3. Then go to step 6.

## ◆ Storing the Number in the Phonebook

Follow steps 1 to 3 shown above, then:		
<b>4</b> Select "Save Phonebook".   → 	<b>5</b> Enter Name (p.27), then press  . (max. 16 characters) If required, edit phone number. (max. 24 digits)	<b>6</b> Press <b>JOYSTICK</b> .  
<b>7</b> Select the desired category or "Off" (p.25).   → 	<b>8</b> Select "Save", then "Saved" is displayed.  	

## ◆ Deleting One/All Caller ID Item(s)

Follow steps 1 to 3 on the previous page, then:

**4** Select "Delete" or "Delete All".



**5** Select "Yes", then "Deleted" is displayed.



## ◆◆ Redial List Menu

You can save the numbers from the redial list into the phonebook, and you can edit (for calling) or delete item(s) in the redial list.

To exit the operation, press at any time.

**1** Press **RIGHT SOFT KEY**.



**2** Select the desired item.



Go to step 3.

- If there are no items stored in the redial list when pressing , the display shows "Memory Empty".

## ◆ Storing the Number in the Phonebook

Follow steps 1 and 2 shown above, then:

**3** Select "Save Phonebook".



**4** Enter Name (p.27).  
(max. 16 characters)

**5** Press **JOYSTICK** twice.



**6** Select the desired category or "Off" (p.25).



**7** Select "Save", then "Saved" is displayed.





# List Menu

## ◆ Editing the Dialed Number for Calling

Follow steps 1 and 2 on the previous page, then:

3

Select "Edit for Call".



 → 


4

Edit Phone Number.  
(max. 24 digits)

5

Press **TALK** or press **JOYSTICK** to call.

 OR 



- You can also press  to make a call.

## ◆ Deleting One/All Redial Item(s)

Follow steps 1 and 2 on the previous page, then:



3

Select "Delete" or "Delete All".

 → 

4

Select "Yes", then "Deleted" is displayed.

 → 



# Using the Phonebook

You can store up to 200 caller information in the phonebook. If you subscribed to Caller ID and you received a call from the same phone number you stored with name in the phonebook, the display will show the caller's name.

## ◆◆ Private Category Feature

You can categorise caller information in the phonebook. There are 9 categories available. For example, category 1 can be used to save friends' numbers. For each category, you can change the category name (max. 10 digits: see **Changing the Private Category Name** on page 39), and you can select one of 3 Ringer LED colours (see **Setting the Private Colour** on page 39) and one of 15 ringer types (see **Selecting the Ringer Pattern for Private Ring** on page 37).

**This feature is only available after subscribing to Caller ID Service.** Please contact your telephone company for further information.

### Example


Private Category No.	Ringer LED Colour *			Private Ringer Type	Category Name
	Green	Orange	Red		
1		✓		3	Friends
3			✓	2	Customers

\* The factory preset LED colour is green.

- The unit will indicate an incoming call using the factory preset LED colour (green) and the ringer pattern assigned to external calls (p.37) momentarily until Caller ID information is received from the service provider.

# Using the Phonebook

## ◆◆ Storing Caller Information

To exit the operation, press  at any time.

**1** Press **LEFT SOFT KEY**.



**2** Press **JOYSTICK** to enter, then the display shows the number of empty phonebook entries.



**3** Enter Name (p.27).  
(max. 16 characters)

**4** Press **JOYSTICK**.



**5** Enter Phone Number.  
(max. 24 digits)

**6** Press **JOYSTICK**.




**7** Select the desired category or "Off".










**8** Select "Save", then "Saved" is displayed.



- If "Memory Full" is displayed when you press , the phonebook is full. To store, delete other stored items in the phonebook.
- To continue storing other caller information, repeat from step 3.

# Using the Phonebook

## ◆◆ Entering Names/Characters

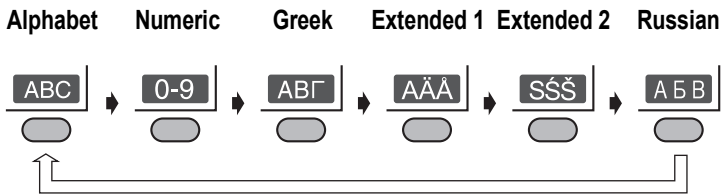
Keys	Operations
	Move the <b>JOYSTICK</b> up, down, left or right to move the cursor (a flashing digit).
 to 	Press to enter letters/numbers. (Items are added to the left of the cursor. If the cursor is at the beginning of a line, the item is added at the beginning.)
	Press to delete characters. (Character on the cursor is deleted. To delete all characters, press and hold.)
	Press to change between upper and lower case.
	Press to insert a blank space (except when in Numeric input mode).
	Press to insert a symbol ( * , # , / , etc.) (except when in Numeric input mode).

### ◆ Selecting the Input Mode

You can select one of 6 input modes by pressing **RIGHT SOFT KEY** while entering a name. The function icon above the key displays the current input mode. The factory preset is “**Alphabet Mode**”.

For the full character map, see **Phonebook Character Table** (p.63).

To switch the input mode while editing the name in the phonebook, press **RIGHT SOFT KEY**.



### Example (Alphabet Mode)


Enter the name using the letters on the keypad. For example, to enter “Anne” in Alphabet Mode:



# Using the Phonebook

## ◆◆ Finding Items in the Phonebook

All phonebook items are stored in the following order: Alphabet letter/Symbol/Number/Telephone Number (when a name is not stored).

To exit the operation, press  at any time.

**1** Press **LEFT SOFT KEY**.



**2** Move the **JOYSTICK** up or down to search for the desired item.



## ◆ Searching for a Name by Initial

**Example:** To find “Felix”

**1** Press **LEFT SOFT KEY**.



**2** Press **3** repeatedly until the first item under “F” is displayed.



**3** Move the **JOYSTICK** down until “Felix” is displayed.



## ◆ Searching by Private Category

**1** Press **LEFT SOFT KEY**.



**2** Press **RIGHT SOFT KEY**.



**3** Select “Category”.



**4** Select the desired category.











**5** Select the desired item to display.






# Using the Phonebook

## ◆ Searching by Index Search Mode


**Example:** To find “ΣΟΦΙΑ” (SOPHIA).











<b>1</b> Press <b>LEFT SOFT KEY</b> . 	<b>2</b> Press <b>RIGHT SOFT KEY</b> . 	<b>3</b> Select “Index Search”.  → 
<b>4</b> Press <b>RIGHT SOFT KEY</b> repeatedly until the desired input mode (Greek) appears. 	<b>5</b> Select the desired initial character “Σ”.  → 	<b>6</b> Move the <b>JOYSTICK</b> down until “ΣΟΦΙΑ” is displayed. 

## ◆◆ Dialling from the Phonebook

<b>1</b> Press <b>LEFT SOFT KEY</b> . 	<b>2</b> Select the desired item (see above and previous page).	<b>3</b> Press <b>TALK</b> or <b>SPEAKERPHONE</b> .  <b>OR</b> 
--	---	---

## ◆◆ Editing Caller Information


To exit the operation, press  at any time.








<b>1</b> Press <b>LEFT SOFT KEY</b> . 	<b>2</b> Select the desired item.  → 	<b>3</b> Select “Edit”.  → 
<b>4</b> Edit Name. (max. 16 characters)	<b>5</b> Press <b>JOYSTICK</b> . 	<b>6</b> Edit Phone Number. (max. 24 digits)
<b>7</b> Press <b>JOYSTICK</b> . 	<b>8</b> Select the desired category or “Off”.  → 	<b>9</b> Select “Save”, then “Saved” is displayed. 

- To continue editing other caller information, repeat from step 2.

# Using the Phonebook

## ◆◆ Deleting Caller Information



To exit the operation, press  at any time.


<b>1</b> Press <b>LEFT SOFT KEY</b> . 	<b>2</b> Select the desired item.  → 	<b>3</b> Select "Delete".  → 
<b>4</b> Select "Yes", then "Deleted" is displayed.  → 		

- To continue deleting other caller information, repeat from step 2.
- If there are no items stored in the phonebook when searching for the desired item, the display shows "Memory Empty".









# Using the Phonebook


## ◆◆ Hot Keys

You can assign the dialling buttons  through  as hot keys. You can choose 9 phone numbers from the phonebook.



To exit the operation, press  at any time.

### ◆ Registering a Phone Number as a Hot Key





<b>1</b> Press <b>LEFT SOFT KEY</b> . 	<b>2</b> Select the desired item.  → 	<b>3</b> Select "Reg. to Hot Key".  → 
<b>4</b> Select the desired dialling button number.  → 	<b>5</b> Select "Save", then "Saved" is displayed. 	

- If there are no items stored in the phonebook when searching for the desired item, the display shows "Memory Empty".
- If an item is already assigned to a hot key, "✓" will be displayed on the left of the key number. If a hot key number with "✓" is selected, press  to select "Overwrite".

### ◆ Dialling with a Hot Key

<b>1</b> Press and hold the dialling button registered as a hot key until a phone number is displayed.	<b>2</b> Press <b>TALK</b> or <b>SPEAKERPHONE</b> .  OR 
--	---

### ◆ Deleting the Hot Key Registration

<b>1</b> Press and hold the dialling button registered as a hot key until a phone number is displayed.	<b>2</b> Press <b>JOYSTICK</b> . 	<b>3</b> Select "Delete". 
<b>4</b> Select "Yes", then "Deleted" is displayed.  → 		

- Phonebook registration will not be erased when hot key registration is deleted.

# Settings Menu Chart

## ◆◆ Handset Settings Menu Chart

1st Menu	2nd Menu	3rd Menu
Setting Handset	Set Date/Time	
	Memo Alarm	
	Ringer Option	Ringer Volume
		EXT Ringer Type
		INT Ringer Type
		Paging Tone
		Private Ring
	Tone Option	Key Tone
	Display Option	Standby Display
		Talk Display
		Select Language
		Private Colour
		Category Name
	Call Option	Call Bar
		Direct Call No.
		Direct On/Off
	Registration	Register H/set
		Cancel Base
	Select Base	Auto
		Base 1
		⋮
		Base 4
	Other Option	Change H/S PIN
		Change H/S Name
		Auto Talk
		Battery Type
		Reset Handset



# Settings Menu Chart


## ◆◆ Base Unit Settings Menu Chart









1st Menu	2nd Menu	3rd Menu
Setting Base	Ringer Option	Ringer Volume
	Call Option	Recall
		Pause Time
		Emergency Call
		Set ARS
		Call Restricted
	Cancel Handset	
	Other Option	Change Base PIN
		Reset Base

# Handset Settings

## ◆◆ Memo Alarm

Set the date and time before setting the memo alarm (p.15).








To exit the operation, press  at any time.

<p><b>1</b> Press <b>JOYSTICK</b> (or move).</p> 	<p><b>2</b> Select “ Setting Handset”.</p>  → 
<p><b>3</b> Select “Memo Alarm”.</p>  → 	<p><b>4</b> Select the desired alarm number (1-3).</p>  → 

Go to step 5.

## ◆ Setting the Alarm Mode “Once” or “Daily”

Follow steps 1 to 4 shown above, then:

<p><b>5</b> Select “Once” or “Daily”.</p>  → 	<p><b>6</b> “Once”: Enter the date and time. “Daily”: Enter the time.</p>	<p><b>7</b> Press <b>JOYSTICK</b>.</p> 
<p><b>8</b> Enter a memo message (max. 32 characters, p.27) then press <b>JOYSTICK</b>.</p> 	<p><b>9</b> Select the desired ringer pattern.</p>  → 	<p><b>10</b> Select “Save”, then “Saved” is displayed.</p> 

- When setting the time, remember to select 12 or 24 hour clock (p.15).
- Memo Alarm volume depends on handset ringer volume. Even if you set ringer to off, only Memo Alarm still rings.
- When in talk or intercom mode, the alarm will not sound until the call is ended.

# Handset Settings

## ◆ Setting the Alarm “Off”


Follow steps 1 to 4 on the previous page, then:

**5** Select “Off”.



**6** Select “Save”, then “Saved” is displayed.











- The factory preset is “Off”.
- To delete the displayed memo alarm, press  then select “Yes” on step 4 on the previous page.

## ◆ To Stop the Alarm

(The Alarm sounds: Max. 3 minutes)




Press .

- You can also stop the alarm by pressing , ,  to , ,  or .
- If “Once” is selected, the setting is turned off.

# Handset Settings

## ◆◆ Ringer Options

There are 15 ringer patterns available on each ringer. “Ringer 1” to “Ringer 6” are the bell ringer patterns. “Ringer 7” to “Ringer 15” are the preset melody patterns as shown below. The music data in this product belongs to M-ZoNE Co., Ltd.

To exit the operation, press  at any time.

Ringer No.	Ringer Pattern or Name	
1 - 6	Bell Patterns	
Ringer Pattern 7 to 15: Preset Melody Patterns		
7	Symphony No.5 in C minor	*
8	Air on G String	
9	Wholetemperiere Clavier 1 Teil No 1 Fuga Das	
10	Fantaisie Impromptu	
11	Allegro Spring/The Four Seasons	
12	Also Sprach Zarathustra	
13	Liebestraum	
14	Polovetsian Dance	
15	24 Caprices	






\* © 2003 M-ZoNE Co., Ltd.

- If you select one of the melody ringer patterns, the phone will ring for 10 seconds even if a caller has hung up. Therefore, you may hear a dial tone or no one on the line after you answer a call.

# Handset Settings



## ◆ Setting the Ringer Volume

The choices are 6 levels and off. If you set the volume to OFF, “🔕” is displayed, however, the paging and intercom call volumes will be at level 1.

<b>1</b> Press <b>JOYSTICK</b> (or move). 	<b>2</b> Select “🔔 Ringer Option”. 	<b>3</b> Select “Ringer Volume”. 
<b>4</b> To increase volume, move the <b>JOYSTICK</b> up. To decrease volume, move the <b>JOYSTICK</b> down. 	<b>5</b> Press <b>JOYSTICK</b> . 	




- The factory preset is 6.

## ◆ Selecting the Ringer Pattern for External Call/Internal Call/Paging

Follow steps 1 to 2 shown above, then:	
<b>3</b> Select “EXT Ringer Type”, “INT Ringer Type” or “Paging Tone”. 	<b>4</b> Select the desired ringer pattern. 

- The factory preset is 1.

## ◆ Selecting the Ringer Pattern for Private Ring


Follow steps 1 to 2 shown above, then:		
<b>3</b> Select “Private Ring”. 	<b>4</b> Select the desired category. 	<b>5</b> Select the desired ringer pattern. 










- The factory preset of each ringer pattern is 1.

# Handset Settings

## ◆◆ Setting the Handset Key Tone ON/OFF


You can turn the key tone ON/OFF.





To exit the operation, press  at any time.

<b>1</b> Press <b>JOYSTICK</b> (or move). 	<b>2</b> Select "  Setting Handset".  → 	<b>3</b> Select "Tone Option".  → 
<b>4</b> Press <b>JOYSTICK</b> to select "Key Tone". 	<b>5</b> Select "On" or "Off".  → 	

- The factory preset is "On".

## ◆◆ Display Options





To exit the operation, press  at any time.

<b>1</b> Press <b>JOYSTICK</b> (or move). 	<b>2</b> Select "  Display Option".  → 
--	---

Go to step 3.

## ◆ Selecting the Standby Mode Display

Follow steps 1 to 2 of **Display Options** shown above, then:

<b>3</b> Select "Standby Display".  → 	<b>4</b> Select "Base Number", "Handset Name" or "Off".  → 
---	--

- The factory preset is "Handset Name".

# Handset Settings

## ◆ Selecting the Talk Mode Display

Follow steps 1 to 2 of **Display Options** on the previous page, then:

**3** Select "Talk Display".



**4** Select "Talk Time" or "Phone Number".



- Even if you select "Phone Number", the length of the call will appear on your display when you receive calls.
- The factory preset is "Talk Time".

## ◆ Setting the Private Colour

Follow steps 1 to 2 of **Display Options** on the previous page, then:

**3** Select "Private Colour".



**4** Select the desired category.



**5** Select Private Colour "Green", "Red" or "Orange" for each category.

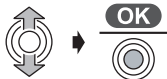


- The factory preset is "Green".
- When you select the private colour on step 5, the Ringer LED will flash at the selected colour.

## ◆ Changing the Private Category Name

Follow steps 1 to 2 of **Display Options** on the previous page, then:

**3** Select "Category Name".



**4** Select the desired category.




**5** Edit Category Name (p.27).  
(max. 10 characters)







**6** Press JOYSTICK.



# Handset Settings



## ◆◆ Call Options


To exit the operation, press  at any time.

<b>1</b> Press <b>JOYSTICK</b> (or move).  	<b>2</b> Select "  Setting Handset".   → 	<b>3</b> Select "Call Option".   → 
Go to step 4.		



## ◆ Call Bar ON/OFF







When this feature is set to ON, outgoing calls cannot be made. Intercom calls and calls to numbers assigned as emergency numbers can be made (see **Setting the Emergency Calls** on page 45).


Follow steps 1 to 3 shown above, then:		
<b>4</b> Select "Call Bar".   → 	<b>5</b> Enter 4-digit Handset PIN. (Factory Preset 0000)	<b>6</b> Select "On" or "Off".   → 

- While the Call Bar mode is turned on, " " is displayed.

## ◆ Setting the Direct Call Number

After a direct call number has been set and the feature has been turned on, you can dial only the direct call number by pressing  or . **When this feature is ON, emergency calls cannot be made.** However, incoming calls can be answered.

Follow steps 1 to 3 shown above, then:		
<b>4</b> Select "Direct Call No.".	<b>5</b> Enter Direct Call Number. (max. 24 digits)	<b>6</b> Press <b>JOYSTICK</b> .  
 → 		
<b>7</b> Select "Save".  	<b>8</b> Select "On".   → 	

- While the direct call mode is turned on, " " is displayed.



# Handset Settings

## ◆ Setting the Direct Call ON/OFF


Follow steps 1 to 3 on the previous page, then:

**4** Select "Direct On/Off".




**5** Select "On" or "Off".



- If the direct call mode is turned off, "☎" will disappear.
- If you did not set the Direct Call Number and select "On" in step 5, "Enter Phone No" will be displayed. Enter the number, then press  twice.

## ◆◆ Other Options

To exit the operation, press  at any time.

**1** Press JOYSTICK (or move).



**2** Select "Setting Handset".



**3** Select "Other Option".



Go to step 4.

## ◆ Changing the Handset PIN (Personal Identification Number)

The factory preset is 0000.

Once you have programmed the handset PIN, you cannot confirm it. We recommend you write down the handset PIN. If you forget it, please consult your nearest Panasonic Service Centre.

Follow steps 1 to 3 shown above, then:

**4** Select "Change H/S PIN".



**5** Enter current 4-digit Handset PIN.

**6** Enter new 4-digit Handset PIN.

**7** Enter new 4-digit Handset PIN again to verify.

# Handset Settings

## ◆ Changing the Handset Name

Follow steps 1 to 3 on the previous page, then:

**4** Select "Change H/S Name".



**5** Edit Handset Name.  
(max. 10 characters)

**6** Press **JOYSTICK**.



## ◆ Setting Auto Talk ON/OFF

Follow steps 1 to 3 on the previous page, then:

**4** Select "Auto Talk".



**5** Select "On" or "Off".



- The factory preset is "Off".

## ◆ Setting the Battery Type

Follow steps 1 to 3 on the previous page, then:

**4** Select "Battery Type".



**5** Select "Ni-Cd" or "Ni-MH".



- The factory preset is "Ni-MH".

## ◆ Resetting the Handset Settings

You can reset all of the handset settings to their initial settings.

**1** Press **JOYSTICK**  
(or move).



**2** Select "Setting Handset".



**3** Select "Other Option".



**4** Select "Reset Handset".



**5** Enter 4-digit Handset PIN.  
(Factory Preset 0000)

**6** Select "Yes", then  
"Deleted" is displayed.




# Handset Settings










## Handset Initial Settings

Functions	Initial Settings
Memo Alarm Mode	OFF
Alarm Time	Delete
Handset Ringer Volume	6
Handset External Ringer Pattern	1
Handset Internal Ringer Pattern	1
Handset Paging Tone Pattern	1
Handset Private Ringer Pattern	1
Handset Alarm Tone Pattern	1
Key Tone	ON
Standby Mode Display	Handset Name
Talk Mode Display	Talk Time
Display Language	English
Call Bar Mode	OFF
Direct Call Mode	OFF
Direct Call Number	Delete
4-Digit Handset PIN	0000
Auto Talk	OFF
Select Base	Automatic Base Unit Selection
Redial Memory	Delete All
Handset Receiver Volume	Medium
Walkie-Talkie Setting	Group
Phonebook List	Remain
LED Colour of Private Category	Green
Battery Type	Ni-MH

# Base Unit Settings


## ◆◆ Setting the Base Unit Ringer Volume







To exit the operation, press  at any time.

<b>1</b> Press <b>JOYSTICK</b> (or move). 	<b>2</b> Select "  Setting Base".  → 	<b>3</b> Enter 4-digit Base Unit PIN. (Factory Preset 0000)
<b>4</b> Select "Ringer Option".  → 	<b>5</b> Select "Ringer Volume". 	<b>7</b> Press <b>JOYSTICK</b> . 
<b>6</b> To increase volume, move the <b>JOYSTICK</b> up. To decrease volume or set to OFF, move the <b>JOYSTICK</b> down. (3 levels) 		

- The factory preset is medium.

## ◆◆ Call Options

To exit the operation, press  at any time.

<b>1</b> Press <b>JOYSTICK</b> (or move). 	<b>2</b> Select "  Setting Base".  → 	<b>3</b> Enter 4-digit Base Unit PIN. (Factory Preset 0000)
<b>4</b> Select "Call Option".  → 		
Go to step 5 on the next page.		

# Base Unit Settings

## ◆ Selecting the Recall Time

You can change the duration of the recall time depending on the requirements of your telephone company or PBX.

Follow steps 1 to 4 of **Call Options** on the previous page, then:

**5** Select "Recall".



**6** Select "Type 1" (700 ms), "Type 2" (100 ms) or "Type 3" (200 ms).



- The factory preset is "Type 2" (100 ms).
- You can access Telstra's "EASY CALL" service by having the recall time set at 100 ms (this is the factory preset setting), and then follow Telstra's "EASY CALL" instructions to operate this service.

## ◆ Selecting the Pause Time

You can select the pause time to 3 or 5 seconds, depending on your PBX requirements.

Follow steps 1 to 4 of **Call Options** on the previous page, then:

**5** Select "Pause Time".



**6** Select "Short" (3 sec.) or "Long" (5 sec.).



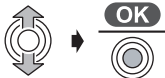
- The factory preset is "Short".

## ◆ Setting the Emergency Calls

Even if handset is in Call Bar Mode, you can make an emergency call.

Follow steps 1 to 4 of **Call Options** on the previous page, then:

**5** Select "Emergency Call".



**6** Select "Emergency Call1" to "Emergency Call5".



**7** Enter Emergency Call Number.

**8** Press JOYSTICK.



- The factory preset is **000**.



# Base Unit Settings

## ◆ Call Restriction



You can restrict selected handset(s) from dialling selected phone numbers. You can assign up to 6 call restriction numbers (up to 8 digits). If you dial a restricted number, the call does not connect and the restricted number flashes.

Follow steps 1 to 4 of **Call Options** on page 44, then:


**5** Select "Call Restricted".

 → 



**6** Search and press **RIGHT SOFT KEY** to attach (or cancel) "✓" to the desired Handset(s) to restrict.

 → 


**7** Press **JOYSTICK**.




**8** Select the restricted Number item (1-6).

 → 

**9** Enter the restricted phone number (up to 8 digits).



**10** Press **JOYSTICK**.





**NOTE:** When you put a first digit on step 9, it must overwrite the current displayed numbers. We recommend you write down the restricted phone number you entered.

## ◆ Storing Your Area Code


If you store your area code, phone numbers from the same area will be dialled without the area code. When you call back from the Caller ID List, you do not need to edit numbers.

Follow steps 1 to 4 of **Call Options** on page 44, then:



**5** Select "Set ARS".

 → 


**6** Select "Set Area Code".




**7** Select the desired number (1-25).



 → 

**8** Enter Area Code. (max. 5 digits)




**9** Press **JOYSTICK**.



- To erase the area code, press  in step 8, then press .

# Base Unit Settings

## ◆◆ Other Options

To exit the operation, press  at any time.

**1** Press **JOYSTICK**  
(or move).



**2** Select “ Setting  
Base”.



**3** Enter 4-digit Base  
Unit PIN.  
(Factory Preset  
0000)

**4** Select “Other Option”.



Go to step 5.

## ◆ Changing the Base Unit PIN (Personal Identification Number)

The factory preset is 0000.

Once you have programmed the base unit PIN, you cannot confirm it. We recommend you write down the base unit PIN. If you forget it, please consult your nearest Panasonic Service Centre.

Follow steps 1 to 4 shown above, then:

**5** Select “Change Base  
PIN”.



**6** Enter new 4-digit Base  
Unit PIN.

**7** Enter new PIN again  
to verify.

## ◆ Resetting the Base Unit Settings

You can reset all of the base unit settings to their initial settings.

Follow steps 1 to 4 shown above, then:

**5** Select “Reset Base”.



**6** Select “Yes”, then “Deleted” is displayed.



# Base Unit Settings

---

## Base Unit Initial Settings

Functions	Initial Settings
Recall Time	Type 2 (100 ms)
Pause Time	Short (3 seconds)
Emergency Call Number 1	000
Call Restricted Handset(s)	Delete All
Call Restriction Number(s)	Delete All
4-Digit Base Unit PIN	0000
Base Unit Ringer Volume	Medium
Caller ID List	Delete All
Area Code	Delete All
Date/Time	31-12-03/00:00



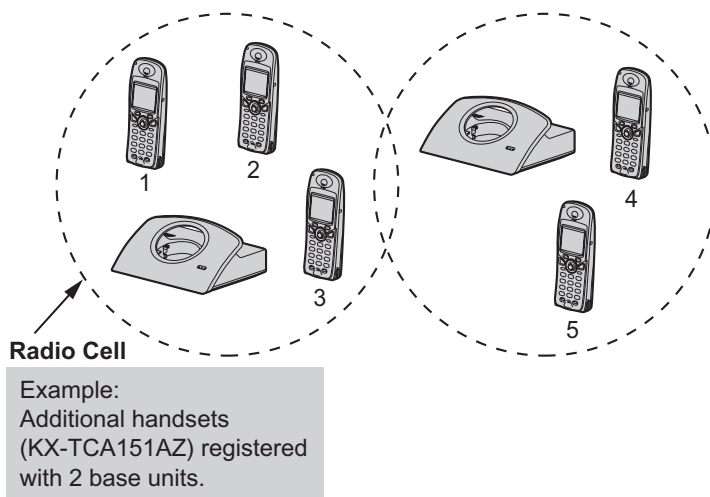
# Multi-Unit User Operations

## ◆◆ Operating Additional Handsets

Additional **KX-TCA151AZ** handsets are available for purchase separately. Up to 6 handsets can be registered to a single base unit. Using additional handsets allows you to have an intercom call while simultaneously conducting a call to an outside line.

## ◆◆ Operating Additional Base Units

You can register and operate your handset with up to 4 base units. Each base unit forms 1 radio cell. If the individual bases are linked to the same telephone line then you can extend the operating range of the system by positioning the bases so that the two radio cells overlap. If the handset is set to auto base selection, then in standby mode the handset will automatically swap to the second base if the range on the first base is exceeded. It is not possible to transfer calls between bases (only between handsets linked to the same base unit).




**NOTE:** Calls are disconnected when the handset moves from one radio cell to another.


# Multi-Unit User Operations



















## ◆◆ Handset Registration to a Base Unit


The handset supplied with the base unit is already registered. If an optional handset is purchased, it must be registered as follows.

**Charge the optional handset batteries for 7 hours before initial use.**

**Handset registration must be completed within 1 minute after pressing . If over 1 minute, press  then start over again.**

To exit the operation, press  at any time.

<b>1</b> Press <b>JOYSTICK</b> (or move). 	<b>2</b> Select "  Setting Handset".  →  	<b>3</b> Select "Registration".  →  
<b>4</b> Select "Register H/set".  →  	<b>5</b> Press and hold  on the Base Unit (for about 3 seconds) until the tone sounds. • If all registered handset(s) start ringing (paging), press  to stop paging then start over again.	
<b>6</b> Select the desired base unit.  →  	<b>7</b> Enter 4-digit Base Unit PIN. (Factory Preset 0000)	<b>8</b> Press <b>JOYSTICK</b> .  


When a handset is registered successfully, a confirmation tone sounds and the "" icon is displayed.









- If you enter the incorrect Base Unit PIN, the error tone sounds and repeat from step 1.
- The handset main menu may change corresponding to the base unit registered to.

# Multi-Unit User Operations

## ◆ Cancelling a Handset


Each handset can cancel itself or another handset. This feature is usually used to cancel a link between Handset and Base Unit.

To exit the operation, press  at any time.








<b>1</b> Press <b>JOYSTICK</b> (or move). 	<b>2</b> Select "Setting Base".  → 
<b>3</b> Enter 4-digit Base Unit PIN. (Factory Preset 0000)	<b>4</b> Select "Cancel Handset".  → 
<b>5</b> Search and press <b>RIGHT SOFT KEY</b> to attach "✓" to the handset(s) to cancel.  → 	<b>6</b> Press <b>JOYSTICK</b> . 

## ◆ Cancelling a Base Unit

If another handset is out of range and/or power is OFF when **Cancelling a Handset**, the previous base unit number will still remain in the cancelled handset. Therefore, you need to cancel the base unit registered in the cancelled handset.

To exit the operation, press  at any time.

Follow steps 1 to 3 on the previous page, then:


<b>4</b> Select "Cancel Base".  → 	<b>5</b> Enter 4-digit Handset PIN. (Factory Preset 0000)
<b>6</b> Search and press <b>RIGHT SOFT KEY</b> to attach "✓" to the base unit to cancel.  → 	<b>7</b> Press <b>JOYSTICK</b> . 
<b>8</b> Select "Yes", then "Deleted" is displayed.  → 	









# Multi-Unit User Operations

## ◆◆ Base Unit Selection

When “Auto” (Automatic Base Unit Selection) is selected, the handset automatically searches for other registered base units if you move outside of the radio range of the current base unit.

When a specified base unit is selected, the handset will access that base unit only. Calls (both incoming and outgoing) can be conducted only via the selected base unit, even if the radio cells overlap with neighbouring base units.


To exit the operation, press  at any time.

<b>1</b> Press <b>JOYSTICK</b> (or move). 	<b>2</b> Select “  Setting Handset”.  → 
<b>3</b> Select “Select Base”.  → 	<b>4</b> Select “Auto” or desired base unit.  → 





## ◆◆ Intercom Between Handsets

You can use your handsets as a 2-way intercom.

**Intercom calls can be conducted within the radio cell of the current base unit, but not with units in neighbouring radio cells.**

To exit the operation, press  at any time.

◆ **For example, when Handset 1 calls Handset 2:**

<Handset 1>		<Handset 2>
<b>1</b>	Press <b>INTERCOM</b>  , then press the desired handset number  .	  Press <b>TALK</b>  .
<b>2</b>		

- You can also answer a call by pressing ,  to , ,  or  instead of pressing  (**Any Key Talk**).


◆ **Terminating a Call**

<Handset 1 or 2>	<b>3</b> Press <b>TALK OFF</b>  .
------------------	--






# Multi-Unit User Operations











## ◆◆ Transferring a Call to Another Handset

The intercom can be used during a call to transfer an external call between handsets that are registered to the same base unit.

To exit the operation, press  at any time.

◆ For example, when Handset 1 transfers a call to Handset 2:


	<Handset 1>	<Handset 2>
	(During a call)	
1	Press <b>INTERCOM</b>  , then press the desired handset number  .	
2		Press <b>TALK</b>  .
	(Conversation between handset 1 and 2)	
3	Press <b>TALK OFF</b>  .	
		(Conversation between outside line and Handset 2)

- You can also answer a call by pressing ,  to , ,  or  instead of pressing  (**Any Key Talk**).
- If you press  after pressing the desired handset number, a call can be transferred to another handset without speaking to another handset.  
If the transferred call is not answered within 60 seconds, Handset 1 will ring again.
- When Handset 2 answers a call transferred, press  to complete a call transfer or press  to establish a **conference call**.











# Multi-Unit User Operations

## ◆◆ Phonebook Copy

You can copy phonebook information between handsets registered to the same base unit. The phonebook copy must be performed while in intercom mode (see **Intercom Between Handsets** on page 52).


To exit the operation, press  at any time.






### ◆ Copying an Item

	<Handset 1: Receiver>	<Handset 2: Sender>
	(During an intercom call)	(During an intercom call)
1	Press <b>JOYSTICK</b> . 	
2	Select "Recv Phonebook". "Start Copying" is displayed.  → 	
3		Press <b>JOYSTICK</b> . 
4		Select "Send Phonebook".  → 
5		Select the desired item to copy.  → 
6		Select "Copy One Item" then "Start Copying" is displayed.  → 

# Multi-Unit User Operations

## ◆ Copying All Items

To exit the operation, press  at any time.

Follow steps 1 to 4 on the previous page, then:		
	<Handset 1: Receiver>	<Handset 2: Sender>
5		Press <b>JOYSTICK</b> .  
6		Select "Copy All Items".  →  

- When copying is completed, a beep sounds and "Copy Complete" is displayed. After a few seconds, the display will return to the intercom call. "Copy Incomplete" will be displayed if the receiver handset memory is full. If "Copy Failure" is displayed on the sender handset, the receiver did not prepare for copying.
- If you move the **JOYSTICK** up or down before pressing **JOYSTICK** at step 5, all items will not be copied. The items, from the item indicated now to the last item, are copied.

# Walkie-Talkie

---

The Walkie-Talkie feature allows handsets to communicate with each other outside the range of the base unit. When the handsets are in Walkie-Talkie mode, external calls cannot be received. Only **KX-TCA151AZ** with Walkie-Talkie feature can communicate with one another.

Talk time in this mode is approximately 6 hours. Standby time in this mode is approximately max.15 hours. (It changes by the use conditions.) When using the handset in Walkie-Talkie mode, we recommend keeping the handset turned off, turning it on only when talking in Walkie-Talkie mode. Turning the handset off immediately after use will improve battery operating time.

## Range:

**The maximum range between two handsets while in Walkie-Talkie mode is up to 300 metres outdoors.**

## ◆◆ Setting the Walkie-Talkie Mode

You can set the Walkie-Talkie mode. There are two types: Common Base Station mode and Group mode. The factory preset is Group mode.

- In Common Base Station mode, communication is possible between handsets registered to a common base unit. If the handsets are registered to more than one base unit, the same base unit must be selected.

Please note, the feature will not operate if AUTO is set in the base unit selection.


If Common Base Station mode is selected and the handset is not registered to a base unit, an error tone sounds.

- In Group mode, communication is possible between handsets that are both set to this mode and whose Group IDs are common.

This allows handsets to communicate in Walkie-Talkie mode regardless of which base unit they are registered to.



# Walkie-Talkie

To exit the operation, press  at any time.

**1** Press **JOYSTICK**  
(or move).



**2** Select "Walkie-Talkie".



**3** Select "Setting".



**4** Select "Common" or "Group".



**When "Group" was selected;**

**5** Enter 3-digit Group Code.  
(Factory Preset 000)

**7** Enter Handset Number.  
(1-9: Factory Preset is 1.)

**6** Press **JOYSTICK**.



**8** Press **JOYSTICK** twice.




- If you select "Group", enter Group Code (this can be 3 digits of your choice - the factory preset is 000). Make note of your code.
- The factory preset of Handset Number is 1.

**IMPORTANT:** Each handset should have its own unique number.







# Walkie-Talkie

## ◆◆ Turning the Walkie-Talkie Mode On/Off

To use the Walkie-Talkie feature, all handsets in conversation must be in Walkie-Talkie mode.




To exit the operation, press  at any time.

### ◆ To Turn the Walkie-Talkie Mode On

<b>1</b> Press <b>JOYSTICK</b> (or move). 	<b>2</b> Select "  Walkie-Talkie".  → 	<b>3</b> Select "On".  → 
---	--	---

- When the Walkie-Talkie mode is ON, the handset number is displayed after "Walkie-Talkie" appears on the display.

### ◆ To Turn the Walkie-Talkie Mode Off


<b>1</b> Press <b>JOYSTICK</b> . 	<b>2</b> Select "Off".  → 
---	---







- This feature is also turned off if you turn power off then on.

## ◆◆ Talking in Walkie-Talkie Mode

Before proceeding with this function, please ensure Walkie-Talkie mode is turned on, and the appropriate Walkie-Talkie mode has been selected.

**For example, Handset 1 is calling Handset 2.**

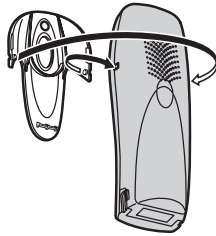
To exit the operation, press  at any time.

<Handset 1>		<Handset 2>	
<b>1</b>	Press <b>INTERCOM</b>  ,  or  , then press the desired handset number  .		
<b>2</b>		Press <b>TALK</b>  .	

- You can also answer a call by pressing ,  to , ,  or  instead of pressing  (**Any Key Talk**).

## Using the Belt Clip

You can hang the handset on your belt or pocket using the belt clip.



To remove  
the belt clip.

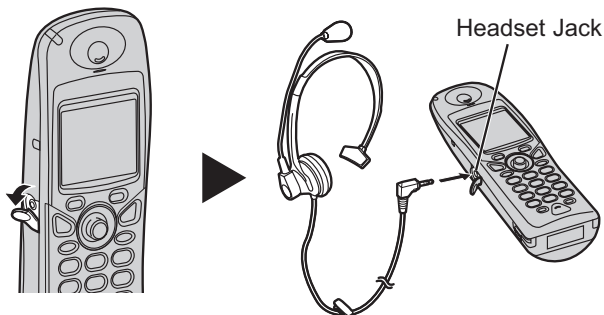


## Optional Headset

Plugging an optional headset into the handset allows hands-free phone conversations. Please use only the Panasonic KX-TCA88AL headset. While using the headset, speakerphone is not available. To switch to speakerphone, disconnect the headset.

### ◆ Connecting the Optional Headset to the Handset

Open the headset jack cover, and connect the optional headset to the headset jack as shown.

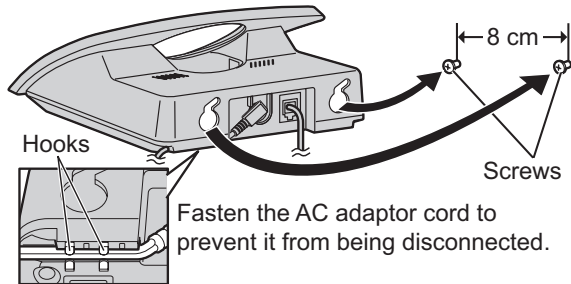


# Wall Mounting

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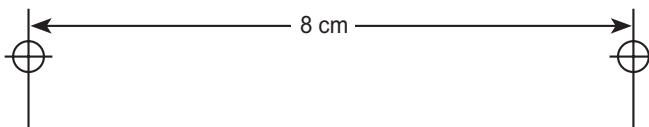
This unit can be mounted on a wall.

- Insert screws into the wall. The centre of the screw holes should be 8 cm horizontally apart.
- Connect the AC adaptor and the telephone line cord.
- Arrange the wires as shown, then mount the unit.



- Make sure the screws are securely fastened to the wall.

## Wall Template





## Before Requesting Help

If you experience any problems with the normal use of your apparatus, you should unplug it from the telephone outlet and connect a known working telephone in its place. If the known working telephone still has problems, then please contact the customer service department of your telephone company.


If it operates correctly, then the problem is likely to be a fault in your apparatus.

In this case, contact your supplier for advice. Your telephone company may charge you if they attend a service call that is not due to an apparatus supplied by them.

**Turn the power OFF then ON (Handset)/Disconnect then connect the AC adaptor (Base Unit).**

Problem	Possible cause	Solution	Page
The unit does not work.	<ul style="list-style-type: none"> <li>Batteries not installed properly.</li> <li>AC adaptor of base unit not connected properly.</li> </ul>	<ul style="list-style-type: none"> <li>Re-install batteries properly.</li> <li>Disconnect and then connect AC adaptor.</li> </ul>	p.12
Display is blank.	<ul style="list-style-type: none"> <li>Handset not turned on.</li> </ul>	<ul style="list-style-type: none"> <li>Turn on power.</li> </ul>	p.14
Display is blank even if the unit is charged.	<ul style="list-style-type: none"> <li>Battery low.</li> </ul>	<ul style="list-style-type: none"> <li>Recharge batteries more than about 15 minutes.</li> </ul>	p.12
Handset will not turn on.	<ul style="list-style-type: none"> <li>Batteries not inserted.</li> <li>Batteries not charged.</li> </ul>	<ul style="list-style-type: none"> <li>Insert the 2 rechargeable batteries supplied.</li> <li>Place handset on base and connect AC adaptor to base and AC outlet (full charge period 7 hrs).</li> </ul>	p.12
Battery charge icon not counting up.	<ul style="list-style-type: none"> <li>Dirty charge contacts.</li> <li>Base not powered up.</li> </ul>	<ul style="list-style-type: none"> <li>Clean charge/battery contacts and retry charge.</li> <li>Connect AC adaptor to base unit and AC outlet.</li> </ul>	<p>p.13</p> <p>p.12</p>
 icon flashes.	<ul style="list-style-type: none"> <li>Handset not registered to base.</li> <li>Handset out of range of base.</li> <li>No power into base unit.</li> </ul>	<ul style="list-style-type: none"> <li>Register handset to base.</li> <li>Move handset closer to base.</li> <li>Connect AC adaptor to base unit and AC outlet.</li> </ul>	<p>p.50</p> <p>p.12</p>
Handset busy tone heard when  is pressed.	<ul style="list-style-type: none"> <li>Handset out of range of base.</li> <li>Another handset in use.</li> </ul>	<ul style="list-style-type: none"> <li>Move handset closer to base.</li> <li>Wait for the other user to complete call.</li> </ul>	

## Before Requesting Help

Problem	Possible cause	Solution	Page
No dial tone.	<ul style="list-style-type: none"> <li>• Telephone line not connected.</li> </ul>	<ul style="list-style-type: none"> <li>• Insert telephone line cord to network.</li> <li>• Turn power OFF then ON.</li> </ul>	<p>p.12</p> <p>p.14</p>
Cannot dial out.	<ul style="list-style-type: none"> <li>• Call Bar mode ON.</li> <li>• Particular dialled number is restricted.</li> <li>• Key lock mode ON.</li> </ul>	<ul style="list-style-type: none"> <li>• Turn feature OFF.</li> <li>• Remove number from call restricted list.</li> <li>• Turn key lock OFF.</li> </ul>	<p>p.40</p> <p>p.46</p> <p>p.18</p>
Handset will not ring.	<ul style="list-style-type: none"> <li>• Ringer switched off.</li> </ul>	<ul style="list-style-type: none"> <li>• Set ringer to one of 6 volume levels.</li> </ul>	p.37
Last number redial does not work.	<ul style="list-style-type: none"> <li>• Number exceeded 24 digits.</li> </ul>	<ul style="list-style-type: none"> <li>• Redial manually.</li> </ul>	p.19
No Caller ID number displayed.	<ul style="list-style-type: none"> <li>• Service not supplied.</li> <li>• Caller has withheld info.</li> </ul>	<ul style="list-style-type: none"> <li>• Caller ID service must be arranged with your telephone company.</li> </ul>	p.21
 icon flashes.	<ul style="list-style-type: none"> <li>• Battery low.</li> </ul>	<ul style="list-style-type: none"> <li>• Recharge batteries.</li> </ul>	p.12
Cannot register handset to base.	<ul style="list-style-type: none"> <li>• Max. number of bases already registered to handset.</li> <li>• Max. number of handsets already registered to base unit.</li> <li>• Wrong PIN number entered (Default 0000).</li> <li>• Electrical noise in local area.</li> </ul>	<ul style="list-style-type: none"> <li>• Delete unused base registrations from handset.</li> <li>• Delete unused handset registrations from base.</li> <li>• If PIN number is lost, contact the Panasonic Service Centre.</li> <li>• Move base/handset away from sources of electrical noise (e.g. TVs, radios, etc.).</li> </ul>	<p>p.51</p> <p>p.51</p> <p>p.47</p> <p>p.5</p>

**Panasonic Australia operates a toll free Customer Support Centre.**  
**Please phone Panasonic on 132600 for assistance.**

## ◆◆ Phonebook Character Table

Buttons	Alphabet (ABC)	Numeric (0-9)	Greek (ABΓ)	Extended 1 (AĀA)	Extended 2 (SŠŠ)	Russian (АБВ)
<b>(1)</b>	Space # & ' ( ) * , - . / 1	1	Space # & ' ( ) * , - . / 1			
<b>(ABC2)</b>	ABC 2	2	ABΓ 2	AAĀĀĀĀÆBBCÇ2	AAĀĀBCĀĀĀ2	АБВГ 2
	abc 2			aāāāāāæbcç2	aāāābcāāĀ2	
<b>(DEF3)</b>	DEF 3	3	ΔEZ 3	DEĒĒĒĒĒĒF 3	DĎĎĒĒĒF 3	ДЕЖЗ 3
	def 3			deēēēēēēf 3	dĎēēēēf 3	
<b>(GHI4)</b>	GHI 4	4	ΗΘΙ 4	GĜHIĪĪĪĪĪĪ4	GHIĪ4	ИЙКЛ 4
	ghi 4			gĝhiĭĭĭĭĭĭ4	ghiĪ4	
<b>(JKL5)</b>	JKL 5	5	ΚΛΜ 5	JKL 5	JKLĲĲĲ 5	МНОП 5
	jkl 5			jkĲ5	jkĲĲĲ 5	
<b>(MNO6)</b>	MNO 6	6	ΝΞΟ 6	MNŃOŌŌŌŌŌŌ6	MNŃŃŌŌŌŌŌŌ6	РСТУ 6
	mno 6			mññŏŏŏŏŏŏ6	mññŃŏŏŏŏŏŏ6	
<b>(PQRS7)</b>	PQRS 7	7	ΠΡΣ 7	PQRSŞß 7	PQRŘŔŔŔŔŔŔ7	ФХЦЧ 7
	pqrs 7			pqrsşß7	pqrŘŕŕŕŕŕŕŔ7	
<b>(TUV8)</b>	TUV 8	8	ΤΥΦ 8	TUŰŰŰŰŰŰŰŰ 8	TŤUŰŰŰŰŰŰŰŰ 8	ШЩЪЫ 8
	tuv 8			tuŭŭŭŭŭŭŭŭ 8	tťuŭŭŭŭŭŭŭŭ 8	
<b>(WXYZ9)</b>	WXYZ 9	9	ΧΨΩ 9	WŴXYŶZ 9	WXŶŶŶŶŶŶŶŶZ 9	ЬЭЮЯ 9
	wxyz 9			wŵxyŷz 9	wxyŷŷŷŷŷŷŷŷZ 9	
<b>(0)</b>	Space 0	0	Space 0			

- The following small (or capital) letters of Greek, Russian (Cyrillic), Polish, Czech and Slovakian are not available. The same letter as capital (or small) will be displayed. a c ç ě ĭ ĩ ñ Ø ř š ŝ ů ŵ ŷ ž ž ž ž
- Press **(↔\*)** to change letter size; Capital > Small, Small > Capital.

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## Specifications

<b>Standard:</b>	DECT=( <u>D</u> igital <u>E</u> nhanced <u>C</u> ordless <u>T</u> elecommunications) GAP=( <u>G</u> eneric <u>A</u> ccess <u>P</u> rofile)
<b>Number of channels:</b>	120 Duplex Channels
<b>Frequency range:</b>	1.88 GHz to 1.9 GHz
<b>Duplex procedure:</b>	TDMA (Time Division Multiple Access)
<b>Channel spacing:</b>	1728 kHz
<b>Bit rate:</b>	1152 kbit/s
<b>Modulation:</b>	GFSK
<b>RF Transmission power:</b>	Approx. 250 mW
<b>Voice coding:</b>	ADPCM 32 kbit/s
<b>Power source:</b>	AC Adaptor 220 - 240 V, 50 Hz
<b>Power consumption, base unit:</b>	Standby: Approx. 3.5 W Maximum: Approx. 9.2 W
<b>Operating conditions:</b>	5 - 40 °C, 20 - 80 % relative air humidity (dry)
<b>Dimensions and mass (weight):</b>	
<b>Base Unit:</b>	About (58 mm x 128 mm x 105 mm) x 200 g
<b>Handset:</b>	About (143 mm x 48 mm x 32 mm) x 125 g

- Specifications are subject to change.
- The illustrations used in this manual may differ slightly from the original device.

### Connections:

The unit will not work during a power failure. We recommend you connect a standard telephone on the same line for power protection.





**For your future reference**

Serial No.

Date of purchase

(found on the bottom of the base unit)

Name and address of dealer

Attach or keep original receipt to assist with any repair under warranty.

Technical specifications are subject to change.



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